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NOTICE OF ALLOWANCE AND FEE(S) DUE

2202

7590

06/02/2008

BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747 EXAMINER

JERABEK, KELLY L

ART UNIT PAPER NUMBER

2622

DATE MAILED: 06/02/2008

	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
Ī	09/662,323	09/14/2000	Seiichi Matsui	0879-0277P	1512

TITLE OF INVENTION: IMAGING APPARATUS, SOLID IMAGING DEVICE AND DRIVING METHOD FOR SOLID IMAGING DEVICE

ı	APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
•	nonprovisional	NO	\$1440	\$0	\$0	\$1440	09/02/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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PO BOX 747	7590 06/02 /ART KOLASCH CH, VA 22040-0747	& BIRCH		State	reby certify that thi es Postal Service w essed to the Mail	s Fee(s ith suf Stop	of Mailing or Trans s) Transmittal is being ficient postage for fir ISSUE FEE address 1) 273-2885, on the d	g depos st class above,	ited with the United mail in an envelope or being facsimile
									(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CON	FIRMATION NO.
09/662,323 TITLE OF INVENTION	09/14/2000 N: IMAGING APPARAT	US, SOLID IMAGING I	Seiichi Matsui DEVICE AND DRIVII	NG N	METHOD FOR SO	LID IN	0879-0277P MAGING DEVICE		1512
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE		DATE DUE
nonprovisional	NO	\$1440	\$0		\$0		\$1440		09/02/2008
EXAM	MINER	ART UNIT	CLASS-SUBCLASS	3	٦				
JERABEK	, KELLY L	2622	348-311000						
CFR 1.363). Change of corress Address form PTO/S "Fee Address" inc PTO/SB/47; Rev 03-Number is required 3. ASSIGNEE NAME A	lence address or indication condence address (or Cha B/122) attached. dication (or "Fee Address" 02 or more recent) attach AND RESIDENCE DATA tless an assignee is identi	nge of Correspondence ' Indication form ed. Use of a Customer A TO BE PRINTED ON	or agents OR, alter (2) the name of a registered attorney 2 registered patent listed, no name wi	single or a attor Il be or typ	e firm (having as a gent) and the name meys or agents. If a printed.	memb es of u no nam	er a 2 p to e is 3	ocumen	nt has been filed for
recordation as set for (A) NAME OF ASSI	th in 37 CFR 3.11. Comp	oletion of this form is NO	T a substitute for filing (B) RESIDENCE: (C	g an a	assignment. and STATE OR C	OUNT	RY)		
4a. The following fee(s) Issue Fee Publication Fee (I Advance Order -	permitted)	4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).							
a. Applicant claim NOTE: The Issue Fee ar	atus (from status indicated ns SMALL ENTITY statu nd Publication Fee (if requ	us. See 37 CFR 1.27.	ed from anyone other th		-		FITY status. See 37 C		
interest as shown by the	records of the United Sta	tes Patent and Trademark	k Office.				-		
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an application. Confider	nation is required by 37 C titality is governed by 35 d application form to the tions for reducing this but Virginia 22313-1450. DC 313-1450.	U.S.C. 122 and 37 CFR	1.14. This collection i	is est	imated to take 12 n	ninutes	to complete, includir	ig gathe	ering, preparing, and

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09/662,323	09/14/2000	Seiichi Matsui	0879-0277P	1512	
2292 75	2292 7590 06/02/2008		EXAMINER		
BIRCH STEWA	RT KOLASCH & BI	JERABEK, KELLY L			
PO BOX 747			ART UNIT	PAPER NUMBER	
FALLS CHURCH, VA 22040-0747			2622		
		DATE MAIL ED: 06/02/2008			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1386 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1386 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)		
	09/662,323	MATSUI, SEIICHI		
Notice of Allowability	Examiner	Art Unit		
	 KELLY L. JERABEK	2622		
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communicatio IGHTS. This application is subject	oplication. If not included n will be mailed in due course. THIS		
1. This communication is responsive to <u>Board of Patent Appe</u>	eals and Interferences Decision dec	<u>ided 3/10/2008</u> .		
2. The allowed claim(s) is/are <u>4-12 and 16-24</u> .				
 3. Acknowledgment is made of a claim for foreign priority unanal All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). 	e been received. e been received in Application No			
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	MENT of this application. itted. Note the attached EXAMINER	R'S AMENDMENT or NOTICE OF		
5. CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.			
(a) including changes required by the Notice of Draftspers	son's Patent Drawing Review(PTO	-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	·			
 (b) including changes required by the attached Examiner' Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the sheet. 	.84(c)) should be written on the drawi	ings in the front (not the back) of		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL	must be submitted. Note the		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal I	Patent Application		
 Notice of Neterences Gled (170-092) Dotice of Draftperson's Patent Drawing Review (PTO-948) 	6. ☐ Interview Summary	• •		
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	Paper No./Mail Da 7. Examiner's Amend	ate		
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Statem 9. □ Other	ent of Reasons for Allowance		
	/James M Hannett/ Primary Examiner, Art Uni	it 2622		

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DETAILED ACTION

Allowable Subject Matter

Claims 4-12 and 16-24 are allowed.

The following is an examiner's statement of reasons for allowance:

Re claims 4-10, the prior art fails to teach or suggest, "An imaging apparatus comprising: a solid imaging device in which pixel information of two adjoining lines composes color information of three primary colors, said solid imaging device comprises a matrix of transferring gates, to which gate pulses for transferring only the pixel information of pairs of two adjoining lines with intervals of a plurality of lines to vertical transferring routes are applied when image signals with low definition are produced; a shooting optical system that forms a subject image on a receiving surface of said solid imaging device; a timing generator that drives said solid imaging device and reads pixel information from said solid imaging device, the timing generator applying gate pulses for transferring only pixel information of pairs of two adjoining lines with intervals of a plurality of lines to vertical transferring routes to said transferring gates when image signals with low definition are produced; and a signal processing device that produces the image signals by producing pixel information of one line from the pixel information of each pair of two

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adjoining lines read from said solid imaging device when the image signals with the low definition are produced."

Re claim 11, the prior art fails to teach or suggest, "A driving method for a solid imaging device in which pixel information of two adjoining lines composes color information of three primary colors, comprising the steps of: applying gate pulses for transferring pixel information of all vertical lines to vertical transferring routes without reducing the pixel information to a matrix of transferring gates when image signals with high definition are produced; applying gate pulses for transferring only pixel information of pairs of two adjoining lines with intervals of a plurality of lines to said vertical transferring routes to said matrix of transferring gates when image signals with low definition are produced; and producing pixel information of one line from the pixel information of each pair of two adjoining lines read from said solid imaging device when the image signals with the low definition are produced."

Re claim 12, the prior art fails to teach or suggest, "A driving method for a solid imaging device in which pixel information of two adjoining lines composes color information of three primary colors, comprising the steps of: applying gate pulses for dividing pixel information of all vertical lines into pixel information of a plurality of fields and transferring the pixel information to vertical transferring routes to a matrix of transferring gates when image signals with high definition are produced; applying gate

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pulses for transferring only pixel information of pairs of two adjoining lines with intervals of a plurality of lines to said vertical transferring routes to said matrix of transferring gates when image signals with low definition are produced; and producing pixel information of one line from the pixel information of each pair of two adjoining lines read from said solid imaging device when the image signals with the low definition are produced."

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Re claims 16-22, the prior art fails to teach or suggest, "An imaging apparatus comprising: a solid imaging device in which pixel information of two adjoining lines composes color information of three primary colors, said solid imaging device comprises a matrix of transferring gates, each associated with a photoelectric transferring device, to which gate pulses for transferring only the pixel information of pairs of two adjoining lines with intervals of a plurality of lines to vertical transferring routes are applied when image signals with low definition are produced; a shooting optical system that forms a subject image on a receiving surface of said solid imaging device; a timing generator that drives said solid imaging device and reads pixel information from said solid imaging device, the timing generator applying gate pulses for transferring only pixel information of pairs of two adjoining lines with intervals of a plurality of lines to vertical transferring routes to said transferring gates when image signals with low definition are produced; and a signal processing device that produces the image signals by producing pixel information of one line from

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the pixel information of each pair of two adjoining lines read from said solid imaging device when the image signals with the low definition are produced."

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Re claim 23, the prior art fails to teach or suggest, "A driving method for a solid imaging device in which pixel information of two adjoining lines composes color information of three primary colors, comprising the steps of: applying gate pulses for transferring pixel information of all vertical lines to vertical transferring routes without reducing the pixel information to a matrix of transferring gates, each associated with a photoelectric transferring device, when image signals with high definition are produced; applying gate pulses for transferring only pixel information of pairs of two adjoining lines with intervals of a plurality of lines to said vertical transferring routes to said matrix of transferring gates when image signals with low definition are produced; and producing pixel information of one line from the pixel information of each pair of two adjoining lines read from said solid imaging device when the image signals with the low definition are produced."

Re claim 24, the prior art fails to teach or suggest, "A driving method for a solid imaging device in which pixel information of two adjoining lines composes color information of three primary colors, comprising the steps of: applying gate pulses for dividing pixel information of all vertical lines into pixel information of a plurality of fields and transferring the pixel information to vertical transferring routes to transferring gates, each associated with a photoelectric transferring device, when image signals with high

definition are produced; applying gate pulses for transferring only pixel information of pairs of two adjoining lines with intervals of a plurality of lines to said vertical transferring routes to said matrix of transferring gates when image signals with low definition are produced; and producing pixel information of one line from the pixel information of each pair of two adjoining lines read from said solid imaging device when the image signals with the low definition are produced."

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contacts

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kelly L. Jerabek whose telephone number is **(571) 272-7312**. The examiner can normally be reached on Monday - Friday (8:00 AM - 5:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lin Ye can be reached at (571) 272-7372. The fax phone number for submitting all Official communications is (571) 273-7300. The fax phone number for submitting informal communications such as drafts, proposed amendments, etc., may be faxed directly to the Examiner at (571) 273-7312.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Kelly L. Jerabek/

Examiner, Art Unit 2622

/James M Hannett/

Primary Examiner, Art Unit 2622